Thallous Chloride TI 201

For complete prescribing information, consult package insert, a brief summary of which follows:

DESCRIPTION: Thallous Chloride TI 201 is supplied in isotonic solution as a sterile, nonpyrogenic diagnostic radiopharmaceutical for intravenous administration. The aqueous solution at calibration time contains 37 MBq (1 mCi)/ml. Thallous Chloride TI 201 adjusted to pH 4.5-6.5 by the addition of hydrochloric acid and/or sodium hydroxide solution. It is made isotonic with 0.9% sodium chloride and is preserved with 0.9% benzyl alcohol. Thallium TI 201 is cyclotron-produced with no carrier added. Radiochemical purity at calibration is at least 97.0%.

INDICATIONS AND USAGE: Thallous Chloride TI 201 may be useful in myocardial perfusion imaging for the diagnosis and localization of myocardial infarction.

It may also be used in conjunction with exercise stress testing as an adjunct in the diagnosis of ischemic heart disease (atherosclerotic coronary artery disease).

It is usually not possible to differentiate recent from old myocardial infarction, or to differentiate exactly between recent myocardial infarction and ischemia.

CONTRAINDICATIONS: None known.

WARNINGS: If studying patients in whom ischemia or myocardial infarction is known or suspected, care should be taken to assure continuous clinical monitoring and treatment in accordance with safe, accepted procedure. Exercise stress testing should be performed only under the supervision of a qualified physician and in a laboratory equipped with appropriate resuscitation and support apparatus.

PRECAUTIONS: Data are not available concerning the effect on the quality of Thallous Chloride TI 201 scans of marked alterations in blood glucose, insulin, or pH (such as is found in diabetes mellitus). Attention is directed to the fact that thallium is a potassium analog, and since the transport of potassium is affected by these factors, the possibility exists that thallium may likewise be affected. Data are not available concerning the effect of drug treatment (such as antihistamines and cimetidine, either alone or in combination).

A myocardial imaging study was unsuccessful in one clinical study involving a patient taking cimetidine and cimetidine the day of the study.

Radiopharmaceutials should be used only by physicians who are qualified by training and experience in the safe use and handling of radionuclides and whose experience and training have been approved by the appropriate governmental agency authorized to license the use of radionuclides.

As in the case of any radioactive material, care should be taken with Thallous Chloride TI 201 to minimize radiation exposure to the patient consistent with proper management and to ensure minimal exposure to occupational workers. This drug should not be used after the expiration date on the label. The expiration date will be six (6) days or less after the calibration date.

Do not use if contents are turbid.

It is recommended that the product be administered close to calibration time to minimize the effect of higher levels of radionuclidic contaminant pre- and post-calibration.

Carcinogenesis: No long-term animal studies have been performed to evaluate carcinogenic potential, mutagenicity potential, or whether Thallous Chloride TI 201 affects fertility in males or females.

Pregnancy Category C: Adequate reproduction studies have not been performed in animals to determine whether the drug affects fertility in males or females, has teratogenic potential, or has other adverse effects on the fetus. Thallous Chloride TI 201 should not be used in pregnant women except when benefits clearly outweigh the potential risks.

Ideally, examinations using radiopharmaceutical drug products, especially those elective in nature, in women of childbearing capability should be performed during the first few (approximately 10) days following the onset of menstruation.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, as a general rule nursing should not be undertaken when a patient is administered radioactive material.

Pediatric Use: Safety and effectiveness in children below age 18 have not been established.

ADVERSE REACTIONS: A single adverse reaction to Thallous Chloride TI 201 product has been reported consisting of hypotension accompanied by pruritus and rash which responded to antihistamines and steroids within one hour.

HOW SUPPLIED: Thallous Chloride TI 201 for intravenous administration is supplied as a sterile, nonpyrogenic solution containing at calibration time 37 MBq (1 mCi)/ml. Thallium 201, 9 mg/ml sodium chloride and 9 mg/ml of benzyl alcohol. The pH is adjusted to between 4.5-6.5 with hydrochloric acid and/or sodium hydroxide. This product is supplied in a 244 MBq (6.6 mCi) size. Each package contains one vial.

The contents of the vial are radioactive. Adequate shielding and handling precautions must be maintained.

STORAGE: Store Thallous Chloride TI 201 at 16-25 C.

Manufactured for Medi-Physics by Squibb Diagnostics. May 1987

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Video Consultation #1: "Tomographic Thallous Chloride TI 201 Imaging"

Tomography expert
Ronald L. Van Heertum, MD
Chief, Section of Nuclear Medicine/Assistant Director, Department of Radiology
St. Vincent's Hospital & Medical Center, New York, NY

Additional video consultations available soon

"Thallium 201 Quantification"
E. Gordon DePuy, MD
Clinical Director of Nuclear Medicine, and
Ernest V. Garcia, PhD
Director of Nuclear Medicine Physics
Emory University Hospital
Atlanta, GA

"Analyzing Thallium 201 Imaging Problems"
Robert E. Henkin, MD
Director, Nuclear Medicine
Loyola Medical Center
Maywood, IL

"Clinical Correlation Update"
Gerald M. Pohost, MD
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Please see adjacent page for brief summary of prescribing information

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Call for Abstracts

The 1988 SNM Computer & Instrumentation Councils solicit the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 7th Annual Winter Meeting in Phoenix, Arizona. An on-site handout of accepted abstracts will be available at the registration area. Upon presentation authors of accepted abstracts will be asked to submit a manuscript of 4 to 6 pages in length that will appear in the proceedings to be published by the American Association of Physicists in Medicine. Further information and instructions on how to prepare manuscripts will be enclosed with acceptance letters.

Title: Imaging Hardware and Software: Validation and Quality Assurance

Date: Monday–Tuesday, February 15–16, 1988

Location: Crescent Hotel, Phoenix, Arizona

Program: Includes scientific papers and invited speakers

Sponsors: SNM Computer & Instrumentation Councils

Cosponsor: American Association of Physicists in Medicine

CME Credit: 18 hr Category 1 (approximately)

For further information contact Dr. Michael A. King, at (617) 856-4255 or the Central Office (212) 889-0717, Meetings Department.

Abstracts must be submitted on one 8½ × 11 page with 5 copies to:

Michael A. King, PhD
Department of Nuclear Medicine
University of Massachusetts Medical Center
55 Lake Avenue North
Worcester, MA 01605

Deadline for receipt of abstracts is Monday, November 2, 1987

Call for Abstracts for Scientific Program

The 1988 Scientific Program Committee solicits the submission of abstracts from members and nonmembers of The Society of Nuclear Medicine for the 35th Annual Meeting in San Francisco. Abstracts accepted for the program will be published in a supplement to the May issue of The Journal of Nuclear Medicine. Original contributions on a variety of topics related to nuclear medicine will be considered, including:

- INSTRUMENTATION
- COMPUTERS AND DATA ANALYSIS
- IN VITRO RADIOASSAY
- RADIOPHARMACEUTICAL CHEMISTRY
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- CLINICAL SCIENCE APPLICATIONS
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  - Renal/Hypertension

Authors seeking publication for the full text of their papers are strongly encouraged to submit their work to the JNM for immediate review.

The official abstract form may be obtained from the October, 1987 issue of the JNM or by calling or writing:

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Deadline for receipt of abstracts is Tuesday, January 12, 1988
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By Philip J. Robbins

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Nuclear Medicine: Positions available for PHYSICIANS, Division of Nuclear Medicine, Department of Radiology, Nuclear Medicine Physician (MD). Responsibilities for teaching, research, and patient care at the University of Miami/Jackson Memorial Medical Center. Required is a strong background in nuclear medicine, preferably with Fellowship training in SPECT as it relates to the neurosciences as well as Board certification in nuclear medicine and/or radiology. Salary commensurate with rank and level of appointment. Apply to: Aldo N. Serafini, MD, Director, Division of Nuclear Medicine (D-57), University of Miami School of Medicine, P.O. Box 016960, Miami, FL 33101; (305)549-7555. Please include the following: 1. Curriculum Vitae; 2. Letter outlining background and interests; 3. Names and addresses of five references. EOE.

N U C L E A R M E D I C I N E PHYSICIAN: Ontario, Canada. The Ottawa Civic Hospital requires a Nuclear Medicine Physicist to join an academically active and growing division of nuclear medicine. The division also currently services the Children's Hospital of Eastern Ontario. Candidates must possess or be eligible for the FRCP(C) in nuclear medicine and eligible for licensing in the Province of Ontario. A teaching appointment at the University of Ottawa will accompany this position. In Accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents of Canada. Interested candidates should submit their CV and the names of three references to: Dr. K.Y. Guelcheny, Chief, Division of Nuclear Medicine, Ottawa Civic Hospital, Ottawa, Ontario K1Y 4G9 Canada. EOE.

N U C L E A R P H Y S I C I A N. Position available immediately. Board certified nuclear physician desired, preferably with internal medicine background. Position includes strong academic teaching involvement in an integrated nuclear medicine residency program. Experience in instrumentation application, particularly with computer applications, complete familiarization with nuclear cardiology and SPECT techniques. Seeking a candidate with basic interest in clinical work and applied clinical research in a community hospital setting. Apply with resume to: Joseph A. Prezzo, MD, Chairman and Program Director, SUNY/B Nuclear Medicine, VAMC, Building 5, 3495 Bailey Ave., Buffalo, NY 14215. EOE.

Physicist

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R A D I A T I O N P H Y S I C I S T. VA Medical Center, Long Beach, CA. Radiation Physicist in nuclear medicine service. Applicants must have demonstrated experience and training in providing technical support for all procedures in nuclear medicine: conceive, develop and design complex analytic medical physics techniques; QC instrumentation; demonstrate ability to develop independent applied or theoretical research programs. Send CV, bibliography, and names of three suitable referees to: Kay Patterson, Personnel Service, VA Medical Center, 5901 E. Seventh St., Long Beach, CA 90822. The VA is an Equal Opportunity Employer.

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N U C L E A R M E D I C I N E R E S I D E N C Y—University of Arizona. Two-year ACME-approved program providing individuals interested in clinical and basic sciences at University Medical Center and VA Medical Center. Research on novel instrumentation is in progress under an NCI Program Project Grant, and clinical research opportunities are available. Tucson is a delightful high-desert city with year-round outdoor recreation. Prerequisite: at least 1 year of ACME-approved postgraduate training. Contact: James M. Woollenden, MD, Division of Nuclear Medicine, Arizona Health Sciences Center, Tucson, AZ 85724. Applications will begin to be reviewed on November 1, 1987. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.

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The NUCLEAR MEDICINE FELLOWSHIPS at the University of Michigan Medical Center. AMA-approved 1- and 2-year fellowships in nuclear medicine are offered to qualified physicians. The program leads to eligibility for Board certification in nuclear medicine or nuclear radiology. A fellow is educated in basic principles, clinical practice, and research. The division is comprehensively equipped and has programs in all aspects of nuclear medicine, including positron emission tomography, single photon tomography, labeled antibodies, and radionuclide therapy. For further information and applications for July 1988, contact: David E. Kuhl, MD, Chief, Division of Nuclear Medicine, University of Michigan Hospital, 1500 East Medical Center Dr., Ann Arbor, MI 48109-0028. A Nondiscriminatory, Affirmative Action Employer.

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The job would entail service and teaching responsibilities with research activity strongly encouraged. The applicant should be certified or eligible for Certification in Nuclear Medicine by the Royal College of Physicians and Surgeons of Canada. This position is open to both men and women. Canadian citizens and landed immigrants are especially encouraged to apply.

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Health Sciences Centre
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   NUCLEAR MEDICINE PHYSICIST: Ontario, Canada. The Ottawa Civic Hospital requires a Nuclear Medicine Physicist to join an academically active and growing division of nuclear medicine. The division also currently services the Children’s Hospital of Eastern Ontario. Candidates must possess or be eligible for the FRCP(C) in nuclear medicine and eligible for licensing in the Province of Ontario. A teaching appointment at the University of Ottawa will accompany this position. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents of Canada. Interested candidates should submit the CV and the names of three references to: Dr. K.Y. Gultechny, Chief, Division of Nuclear Medicine, Ottawa Civic Hospital, Ottawa, Ontario K7Y 4E9 Canada. EOE.

   NUCLEAR PHYSICIAN. Position available immediately. Board certified nuclear physician desired, preferably with internal medicine background. Position includes strong teaching and some clinical teaching involvement in an integrated nuclear medicine residency program. Candidates need to be experienced in instrumentation, particularly with computer applications, complete familiarity with nuclear cardiology and SPECT techniques. Seeking a candidate with basic interest in clinical work and applied clinical research in a community hospital setting. Apply with resume to: Joseph A. Prezio, MD, Chairman and Program Director, SUNY/B Nuclear Medicine, VAMC, Building 5, 3495 Bailey Ave., Buffalo, NY 14225. An Equal Opportunity Employer.

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   NUCLEAR PHYSICIST—POSTDOCTORAL TRAINING. PhD in physics, computer sciences, or closely related field, with interest in imaging processing, computer architecture, tomographic scanners, and computer applications in nuclear medicine desired. Send CV to: Aldo N. Serafini, MD, Director of Nuclear Medicine, Division of Medical Research, Jackson Memorial Medical Center, P.O. Box 080690, Miami, FL 33101; (305)549-7955. EOE.

   RADIATION PHYSICIST—VA Medical Center. Long Beach, CA, is recruiting for a Radiation Physicist in nuclear medicine. Applicants must have demonstrated experience and training in providing technical support for all procedures in nuclear medicine: conceivably, design and test complex analytical radiation physics techniques; Q[C] instrumentation; demonstrate ability to develop independent applied or theoretical research programs. Send CV, bibliography, and names of three suitable references to: Kay Patterson, Personnel Service, VA Medical Center, 5900 E. Seventh St., Long Beach, CA 90822. The VA is an Equal Opportunity Employer.

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   RESIDENCY IN NUCLEAR MEDICINE. A two-year ACMEP-approved program offering broad clinical and basic science experience. Minimum requirement is Board eligibility in internal medicine, radiology, or pathology. One-year fellowships for radiologists also available. The program is an integrated program involving internal care, oncology, and nuclear medicine, focused exposure, strong radiopharmaceutical, and research opportunities. Program also provides opportunity for exposure to MRI, CT, and SPECT. An integrated program of the State University of New York at Buffalo School of Medicine. Positions available July 1, 1988. Contact: Joseph A. Prezio, MD, Chairman and Program Director, SUNY/B Nuclear Medicine, VAMC, Building 5, 3495 Bailey Ave., Buffalo, NY 14225. EOE.

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   The NUCLEAR MEDICINE FELLOWSHIPS at the University of Michigan Medical Center. AMA-approved 1- and 2-year fellowships in nuclear medicine are offered to qualified physicians. The program leads to eligibility for Board certification in nuclear medicine or radiology. A fellow is educated in basic principles, clinical practice, and research. The division is comprehensively equipped and has programs in all aspects of nuclear medicine, including positron emission tomography, single photon tomography, labeled antibodies, and radionuclide therapy. For further information, contact: David E. Kuhl, MD, Chief, Division of Nuclear Medicine, University of Michigan Hospital, 1500 E. Medical Center Dr., Ann Arbor, MI 48109-0028. A Nondiscriminatory, Affirmative Action Employer.

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Send resume or call:

Dr. I. David Greenberg
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ATTENTION
SNM MEMBERS

The Society of Nuclear Medicine recently sent two mailings of a manpower survey to selected institutions and individuals for the third and final mailing.

We are calling upon you for your help. If you receive a copy of this survey please fill it out and return it to The Society of Nuclear Medicine no later than November 23, 1987. The success of this survey depends on you. Thank you for your cooperation.

Manpower Committee
The Society of Nuclear Medicine

Attention
Nuclear Medicine
Program Directors and Residents...

The Society of Nuclear Medicine will publish a listing of all nuclear medicine residency programs with openings in 1988 in the January 1988 Issue of The Journal of Nuclear Medicine. Program directors are encouraged to write to The Society of Nuclear Medicine to ensure that their listing is included. Please send all information no later than November 15, 1987 to:

James M. Woolfenden, MD
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New Products

Each description of the products below was condensed from information supplied by the manufacturer. The reviews are published as a service to the professionals working in the field of nuclear medicine and their inclusion herein does not in any way imply an endorsement by the Editorial Board of The Journal of Nuclear Medicine or by The Society of Nuclear Medicine.

Detectors for Alpha, Beta, Gamma, and Low-Energy X-Rays

Dosimeter Corporation has introduced RAM digital and analog survey meters that can be used with ion chambers, and scintillation, air proportional, and GM detectors to measure alpha, beta, gamma, and low-energy x-ray exposure to personnel in work areas. The survey meters can be used to determine count rates as well as to count samples. Because there are calibration pots in the probes, the instruments do not need to be recalibrated when the probes are changed. Dosimeter Corporation, 11286 Grooms Rd., Cincinnati, OH 45242.

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Cortical Blood Flow Mapping System

Scan Detectronic Laboratories, Inc., has introduced the Cortexplorer 256, a high-resolution system for bilateral measurement of regional cerebral blood flow. The Cortexplorer consists of a table and helmet-contoured gantry, a radionuclide tracer administration system, detector electronics, a personal computer or mini-computer with a high-resolution color graphics terminal, and a color graphics printer. It incorporates 254 self-calibrating scintillation counters into the head gantry, which are pneumatically positioned so that they just touch the patient's skull, said the company. Xenon-133 tracer is used to detect areas of differential blood flow. Spatial resolution measured is in the range of 1 cm², and the graphics maps are presented as a vertex view comprised of approximately 3200 pixels. The Cortexplorer software can be run on an IBM-PC, DEC PDPII, or VAX computer. For ease of repair, the system uses standardized printed circuit boards and modular electronics. Scan Detectronic Laboratories, Inc., 512 Danbury Rd., New Milford, CT 06776.

Circle Reader Service No. 103

Liquid Scintillation Analyzer with Built-In Computer

Packard Instrument Company has introduced the Tri-Carb 9600CA liquid scintillation analyzer (LSA), which incorporates an IBM-compatible Pico-XTE computer. The built-in computer replaces much LSA hardware with firmware and software, reducing the size of the LSA. New analytical capabilities include discrimination of background from valid scintillation pulses, an extended quench range for improved DPM results at high quench levels, self-monitoring of instrument performance, and determination of absolute activities without quench correction, according to the company. There are six methods for calculating DPM, and dual- or triple-label samples can be determined in virtually the same time previously required for single label CPM results, said Packard. Optional software programs include RIA/QC programs, histogram and integration software, and automatic instrument performance assessment. Packard Instrument Company, 2200 Warrenville Rd., Downers Grove, IL 60515.

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